

Offsets with outcomes

An ecologist's perspective on how QTFN work toward best practice in engaging with Koala offsets in SEQ



We work on Jagera, Yuggera
and Ugarapul land. We
acknowledge the ancestors
and pay our respects to
elders —past, present and
emerging —and work to
protect and preserve
Yuggera country for all.



The critiques

Is it really 'no net loss'?
Are we replacing like with like?
Can adaptive management create biodiversity gains?
Are we incentivising good behaviour?

Offset policy

Impact assessment & approval

Selecting sites strategically Setting informed baselines

Data -driven adaptive management

Perpetuity post -offset

QTFN Aroona Station in the Little Liverpool Range, a major wildlife corridor on Brisbane's expanding western fringe

What does best practice look like?

Landscape focused strategy to create and protect corridors for the future

Data driven adaptive management guided by research and monitoring

Going beyond the basic to grow our understanding of Koala ecology in our region



SEQ is a rapidly growing region

Corridors exist, but need to be protected and restored before encroachment

Protecting high-value habitat in those corridors can take many forms:

Our reserves

Our partnerships

Conservation on private land



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Koala Crossing

~600ha within Flinders Karawatha corridor purchased in 2015-2016

High quality mature regrowth, remnant endangered regional ecosystems and cleared areas of restoration priority

Not just koalas - other threatened and rare species and a community of engaged citizens

Five years post-purchase review











Data & metrics

Monitoring and checkpoints - internal guidance, external review

Imagining alternate futures using data

Adaptive management in practice

Social and environmental impact

Imagined futures

Existing weed issues exacerbated when stock were removed and little support for weed management

Research and monitoring guided a weed strategy to rectify the problem

One fire goes out, another emerges-L. camarão L. montevidiensis

Scientific experimentation, collection & analysis of data dictates how we adaptively manage







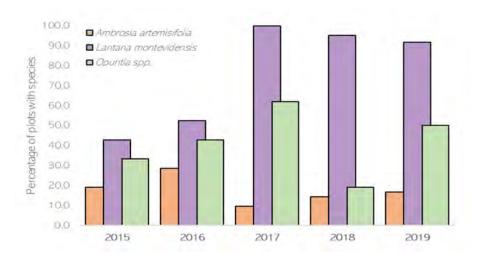
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Natural regeneration & revegetation



Natural regeneration of Eucalyptus tereticornis





Beyond basics

Fill data gaps instead of falling into them

Foster and fuel research

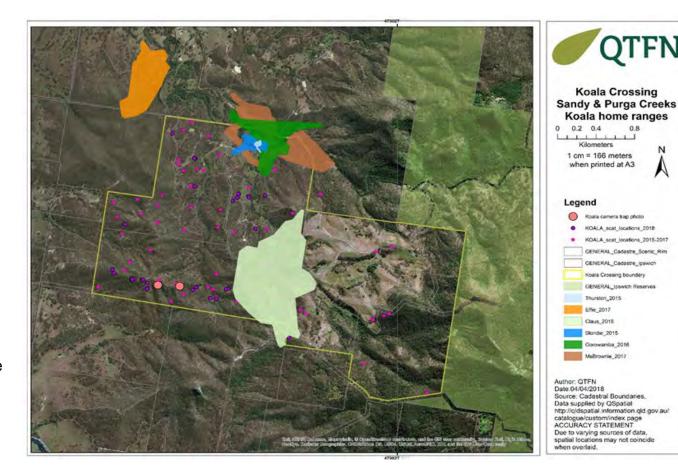
Train and engage ecologists, conservation workers & informed citizens of the future

Look for the next best way to monitor our koalas

Offset funds contribute to research into koala health and movement

Home range of Ipswich koalas x5 larger than the coast

Preferred food trees species listed as secondary importance in the region



QTFN

Koala Crossing

Kilometers

when printed at A3

Koala camera trap photo KOALA scat locations 2018

Koala Crossing boundary GENERAL_Ipswich Reserves

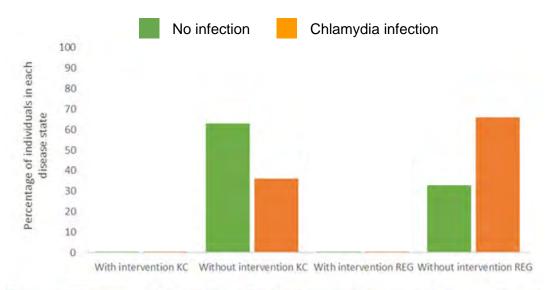
Thurston_2015 Effe 2017 Blandie 2015

Gorowamba 2016 MsBrownie_2017

KOALA_scat_locations_2015-2017 GENERAL_Cadastre_Scenic_Rim GENERAL_Cadastre_lpswich

Koala Crossing disease rates lower than surrounding agricultural matrix

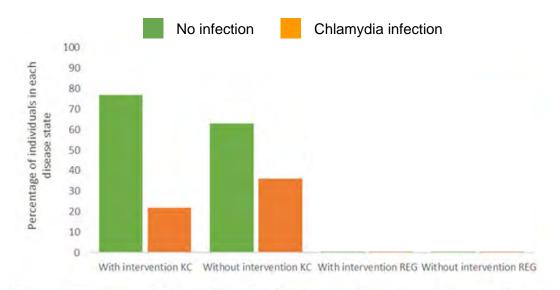
Intervention is shifting the balance of infection rates within our reserve and in the broader region





Koala Crossing disease rates lower than surrounding agricultural matrix

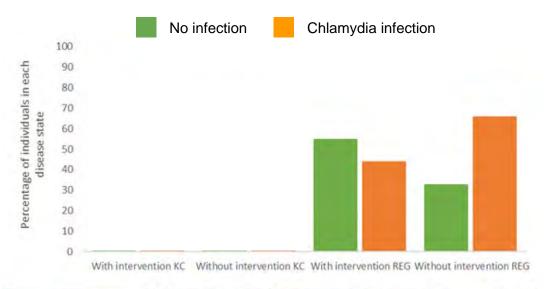
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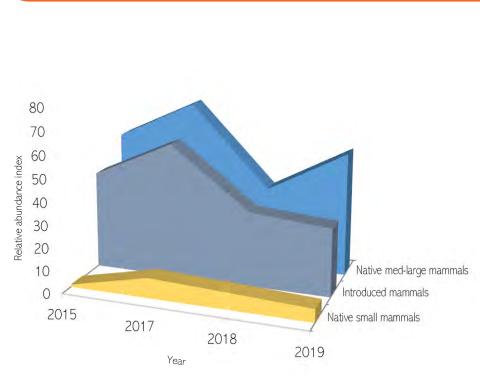
Early signs of increasing koalas



Early signs of increasing koalas



Returning balance of native v. non -native species





Train and engage

Teaching, learning and experiencing on our reserves an essential part of our work

School camps

Tertiary work experience

Community outreach



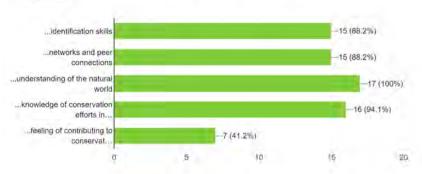




Social & educational impact

Do you feel that attending LandCamp helped you extend your...

17 responses



ANSWER CHOICES	RESPONSES	
▼ I had a lot of fun	100.00%	10
 I learned new things about invertebrate diversity 	90.00%	9
 Hearned new things about the ways we study invertebrates 	60.00%	6
1 enjoyed spending my weekend in nature	100.00%	10
→ I learned about QTFN and how they work to conserve Queenslands wildlife	100.00%	10
 I saw cool things other than invertebrates - koalas, wallables, plants etc. 	100.00%	10
Total Respondents: 10		





Offsets with outcomes

Less dispersal & recruitment blocking weeds

Improved vegetation structure

Early signs of improved koala occupancy and activity

Returning balance of native to nonnative species

Social and educational impact

What can we do to make the system better?

Use the offset system to strategically extend and improve habitat

Design and collect data rigorously to guide adaptive management

Extend reach beyond compliance to environmental and social dimensions

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